

* * * * * STN Columbus * * * * *

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=> fil pctfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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=> WO96/20236/pn

L1 0 WO96/20236/PN
(WO96/PN)

=> WO 1996020236/pn

L2 1 WO 1996020236/PN
(WO9620236/PN)

=> form? and l2

952912 FORM?
L3 1 FORM? AND L2

=> d kwic l3

L3 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN

PI WO 9620236 A1 19960704

ABEN A polyglycomer is disclosed of **formula** (I), wherein L is a
linker selected from the group of
-O-(CH₂)_m-, -NH-(CH₂)_m-, -O-(CH₂)_m-X-, and -NH-(CH₂)_m-X-, wherein X = S.

ABFR L'invention se rapporte a un polyglycomere de la **formule** (I)
dans laquelle L represente un
element de liaison selectionne dans le groupe de -O- (CH₂)_m-,
-NH-(CH₂)_m-, -O-(CH₂)_m-X-, et
-NH-(CH₂)_m-X-, . . .

DETD . . . the Invention

In general, the field of the present invention is
carbohydrate-substituted polymers. Specifically, the field of
the present invention is saccharide-substituted polymers
5 **formed** from 7-oxanorbornenes through aqueous ring-opening

metathesis polymerization.

Summary of the Invention

The present invention is a compound of the **formula**.

The present invention is also a polyglycomer of the **formula**.

0

0

L L

\ 2

R' R

wherein L is a linker selected from the group of (CH₂),-, -NH-(CH₂)_m-f (CH₂),-X- and -NH-(CH₂),-X- wherein X. . . and m is 2 - 10; and wherein R' and R 2 are selected from the group consisting of moieties of the **formula**.

The present invention is also a compound of the **formula**

0

L 0

/ CH₃

R

5 wherein L is a linker selected from the group of (CH₂),-f NH-(CH₂)_m-f (CH₂)_m-X- and -NH-(CH₂),-X- moieties, wherein X 0 or. . .

The present invention is also a compound of the **formula**

0

Hoes etlH

0 0

L L

R' R₂

wherein L is a linker selected from the group of (CH₂),-, NH-(CH₂)_m-f (CH₂),-X- and -NH-(CH₂)_m-X- moietiesf wherein X 0. . .

via a C-glycoside linkage and treating the product of the first step with ruthenium trichloride, wherein a polyglycomer is created. In a preferred **form** of this method, the ruthenium trichloride treatment is in a aqueous environment at 550C.

When the saccharide is attached with a C-glycoside linker, the linker element of the general **formula** described 2 5 above is CH₂-CH₂-'. However, we envision that other linkers WO 96/20236 PCrFUS95/13361

9

hexoses and pentoses are suitable, although hexoses. . .

designs of 8, 9 and 10 are based on the Lewis a rather than Lewis x template, because derivatives of the **former** generally bind more tightly to the selectins (Berg, et al., Biochem. Biophys. Res. Commun. 184:1048-1055, 1992. Nelson, et al., J. Clin. Invest. 91:1157-1166,. . .

selectin inhibitors, sulfates 8, 9 and 10, were generated by chemical synthesis. We chose to employ chemical over enzymatic synthesis because the **former** provides access to many different carbohydrate derivatives. Although enzymes are available for the generation of Le' structures, the corresponding Le' scaffold can not. . .

and the galactose partners 13a and 13b are available through standard manipulations (Manning, et al., 1994, in preparation, supplemental material). The glycosylations to **form** lactose derivatives 14a and 14b were promoted with Schmidt glycosylation conditions (Schmidt, In Comprehensive Organic Synthesis; B. M. Trost and I. Fleming, Eds.;. . .

Compound 8 was sulfated by way of the cyclic tin acetal, which **forms** at the 3 and 4 hydroxyls of the galactose residue.

CLMEN 1. A polyglycomer of the **formula**

0

L L-

R1 \ jt]

wherein L is a linker selected from the group of (CH₂)_m-f - NH-(CH₂)_m-r (CH₂)_m-X-. , and -NH-(CH₂)_m-X-j, wherein X is. . .

12 A polyglycomer of the **formula**

0

0 0

L L

RI

R2

wherein L is a linker selected from the group of (CH₂)_m,-, - NH-(CH₂)_m-f (CH₂)_m-Xi and -NH-(CH₂)_m-X-, wherein X is S or O and m is 2-10,

wherein R' and R 2 are selected from the group consisting of moieties of the **formula**

HO

CH

H3C CH

HO 0 CH

R92o.0 0 0

R9b L

OH HO

wherein R'' = SO₃Na and R 2 = H; or R SO₃Na and R, . . .

13 A polyglycomer of the **formula**

n

0

RI CH3

wherein L is a linker selected from the group of (CH₂)_m,-, - NH-(CH₂)_m-j, (CH₂)_m-X-1 and -NH-(CH₂)_m-X-, wherein X is S. . .

14 A polyglycomer of the **formula**

0

His 41811H

0 0

L L

RI \ 2

R

wherein L is a linker selected from the group of (CH₂)_m,-, - NH-(CH₂)_m-f (CH₂)_m-X-1 and -NH-(CH₂)_m-X-, wherein. . .

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.73

14.94

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:32:26 ON 19 MAR 200